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 (71) 出願人 (米国を除く全ての指定国について): 大日本印刷株式会社 (DAI NIPPON PRINTING CO., LTD.) [JP/JP]; 〒1628001 東京都新宿区市谷加賀町一丁目 1 番 1 号 Tokyo (JP).
 (72) 発明者; および
 (75) 発明者/出願人 (米国についてのみ): 関口 博

(SEKIGUCHI, Hiroshi) [JP/JP]; 〒1628001 東京都新宿区市谷加賀町一丁目 1 番 1 号 大日本印刷株式会社内 Tokyo (JP). 後藤 正浩 (GOTO, Masahiro) [JP/JP]; 〒1628001 東京都新宿区市谷加賀町一丁目 1 番 1 号 大日本印刷株式会社内 Tokyo (JP).

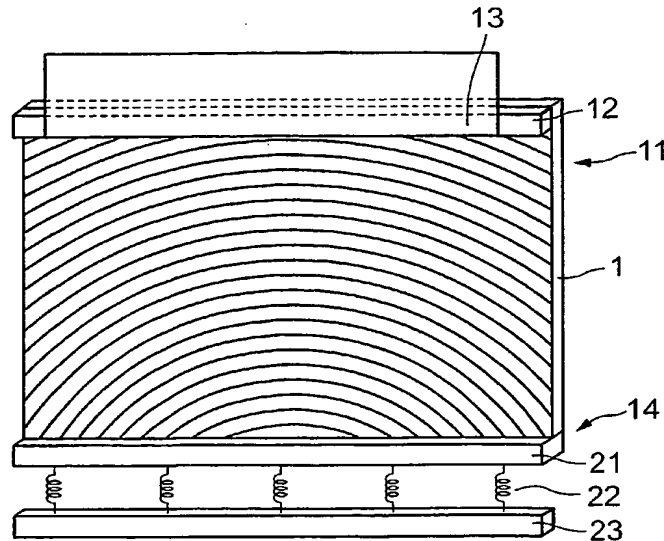
(74) 代理人: 吉武 賢次, 外 (YOSHITAKE, Kenji et al.); 〒1000005 東京都千代田区丸の内三丁目 2 番 3 号 富士ビル 3 2 3 号 協和特許法律事務所 Tokyo (JP).

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(54) Title: INSTALLATION STRUCTURE FOR FRESNEL LENS SHEET AND REAR-PROJECTION DISPLAY DEVICE

(54) 発明の名称: フレネルレンズシートの取付構造および背面投射型表示装置



(57) Abstract: An installation structure for a Fresnel lens sheet and a rear-projection display device with the structure, the structure being able to retain in excellent planarity a Fresnel lens sheet in the display device, the lens being easily removed from a die in production. An installation structure is for a Fresnel lens sheet (1) with a thickness of 3 mm or less having triangular prisms arranged on the light incoming side of the lens sheet. A prism has an entrance face and a total reflection face totally reflecting part or the whole of light incoming from the entrance face and polarizing it to a desired direction. The structure has a suspension member (12) installed on a top side (11) of a Fresnel lens sheet (1) and a support member (21) for supporting the suspension member (12). It is preferable that a tension-applying member (22) is attached to the lens sheet (1).

(57) 要約: 製造時に金型から離型し易い薄型のフレネルレンズシートを、背面投射型表示装置に平面性よく保持することができるフレネルレンズシートの取付構造およびその取付構造を備

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WO 2004/083956 A1



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VC, VN, YU, ZA, ZM, ZW.

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添付公開書類:

— 国際調査報告書

2文字コード及び他の略語については、定期発行される
各PCTガゼットの巻頭に掲載されている「コードと略語
のガイダンスノート」を参照。

えた背面投射型表示装置を提供する。入射面と当該入射面から入射する光の一部または全部を全反射して所望の
方向に偏向する全反射面とからなる三角形のプリズムが入射光側に配列された厚さ3mm以下のフレネルレンズ
シート1の取付構造であって、フレネルレンズシート1の上辺11に装着された吊り下げ部材12と、当該吊り下
げ部材12を支持する支持部材13とを備えるように構成した。このとき、フレネルレンズシート1に張力付加部
材21が装着されていることが好ましい。

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/003654

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ G03B21/62, G03B21/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G03B21/62, G03B21/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2001-228546 A (Matsushita Electric Industrial Co., Ltd.), 24 August, 2001 (24.08.01), Full text; all drawings (Family: none)	1-12
Y	JP 7-43713 Y2 (Dainippon Printing Co., Ltd.), 09 October, 1995 (09.10.95), Full text; all drawings (Family: none)	1-12
Y	JP 1-302338 A (Sony Corp.), 06 December, 1989 (06.12.89), Full text; all drawings (Family: none)	1-12

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

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"&" document member of the same patent family

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Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-196413 A (NEC View Technology, Ltd.), 12 July, 2002 (12.07.02), Full text; all drawings (Family: none)	1-12
Y	JP 2001-66701 A (Mitsubishi Rayon Co., Ltd.), 16 March, 2001 (16.03.01), Full text; all drawings & WO 00/38005 A1 & EP 1152286 A1 & US 6556347 B1 & KR 01/99829 A	9-12
A	JP 7-43835 A (Dainippon Printing Co., Ltd.), 14 February, 1995 (14.02.95), Full text; all drawings (Family: none)	1-12